

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of notifying, within one node of an ad-hoc network, which node comprises, in addition to routing applications, applications of an application layer of the ad-hoc network, changes of state of the resources of the ad-hoc network to at least one ~~application of an~~ of the applications of the application layer of the ad-hoc network and adapted to execute on the ad-hoc network, the at least one application being sensitive to changes of state of the ad-hoc network, the method comprising the following steps, performed on said one node of the ad-hoc network:

registering said at least one application ~~of the one node~~ with a change-of-state notification means provided on the one node, wherein registering comprises indicating to the change-of-state notification means, during said registering, a type of routing information that is of interest for the at least one application being registered;

extracting, at the one node, extracting routing information ~~from corresponding~~ to the indicated type of information from routing information exchanged by routing applications of nodes of the ad-hoc network on a transport or network layer of the ad-hoc network, with said change-of-state notification means with which the application has previously been registered; and

forwarding said routing information extracted by the notification means to the ~~application,~~ application in the one node, so that the application can exploit said routing information.

2. (Currently Amended) A change-of-state notification method according to claim 1, wherein, during the registering by which the at least one application was registered with the change-of-state notification means, a fraction of at least one of the nodes ~~and/or of~~

and of links of the ad-hoc network is selected so that the information that is extracted and forwarded to said at least one application is routing information relating to said selected fraction of the at least one of the nodes and/or and of the links.

3. (Previously Presented) A change-of-state notification method according to claim 1, wherein the routing information is extracted by interrogating a routing protocol implemented in the ad-hoc network.

4. (Previously Presented) A change-of-state notification method according to claim 3, wherein the routing information is extracted from routing tables exchanged by a proactive routing protocol of the ad-hoc network.

5. (Previously Presented) A change-of-state notification method according to claim 1, further including a step of dynamically extending the notification means during which new extraction rules are introduced into the notification means corresponding to new routing information that has been deployed on the ad-hoc network.

6. (Currently Amended) A computer-readable recording medium storing a computer program for performing within one node of an ad-hoc network, which node comprises, in addition to routing applications, applications of an application layer of the ad-hoc network, a change-of-state notification method, the method executed by a computer, wherein the program includes, for an application of the one node that has previously been registered with the program, the application being sensitive to changes of state of the ad-hoc network, instructions causing the computer to operate the one node of the ad-hoc network as follows:

operate as means for registering the application ~~of the one node~~ with a change-of-state notification means provided on the one ~~node~~; node, wherein registering comprises indicating to the change-of-state notification means, during said registering a type of routing information that is of interest for the application being registered;

operate as means for ~~extracting~~extracting, at the one node routing information ~~from~~corresponding to the indicated type of information, from routing information exchanged ~~by routing applications of nodes of the ad-hoc network on a transport or network layer of the~~ ad-hoc network, with said change-of-state notification means; and

operate as means for forwarding the extracted routing information to the ~~application,~~application in the one node, so that the application can exploit said routing information.

7. (Currently Amended) A system for notifying, within one node of an ad-hoc network, which node comprises in addition to routing applications, applications of an application layer of the ad-hoc network, changes-of-state of the resources of the ad-hoc network, the system comprising the ad-hoc network and at least one application of the application layer adapted to execute on the ad-hoc network, the at least one application being sensitive to changes of state of the ad-hoc network, and including a computer program installed on one node of the ad-hoc network, the program including, for an application of the one node that has previously been registered with the program, instructions for causing the one node to operate as follows:

operate as means for registering the application ~~of the one node~~ with a change-of-state notification means provided on the one ~~node;~~node, wherein registering comprises indicating to the change-of-state notification means during said registering a type of routing information that is of interest for the application being registered;

operate as means for ~~extracting~~extracting, at the node, routing information ~~from~~corresponding to the indicated type of information from routing information exchanged ~~by routing applications of nodes of the ad-hoc network on a transport or network layer of the~~ ad-hoc network, with said change-of-state notification means; and

operate as means for forwarding the extracted routing information to the ~~application,~~ application in the one node, so that the application can exploit the routing information.

8. (Currently Amended) A node of an ad-hoc network, ~~which node comprising comprises in addition to~~ routing applications, applications of an application layer of the ad-hoc network, the node storing a computer program including, for an application of the node that has previously been registered with the program, the application being sensitive to changes of state of the ad-hoc network, instructions for causing the node to:

operate as means for registering of the application ~~of the node~~ with a change-of-state notification means provided on the ~~node;~~ node, wherein registering comprises indicating to the change-of-state notification means during said registering a type of routing information that is of interest for the ~~application being registered;~~

operate as means for ~~extracting~~ extracting, at the node, routing information ~~from corresponding to the indicated type of information from routing information exchanged by routing applications of nodes of the ad-hoc network on a transport or network layer of the~~ ad-hoc network with said change-of-state notification means; and

operate as means for forwarding the extracted routing information to the ~~application,~~ application in the node, so that the application can exploit said routing information.

9. (Previously Presented) A change-of-state notification method according to claim 4, wherein the proactive routing protocol is the OLSR protocol.

10. (New) A change-of-state notification method according to claim 1, wherein the type of information indicated during registration comprises information relating to the nodes of the network that might have an influence on implementing the application.

11. (New) A change-of-state notification method according to claim 10, wherein the information relating to the nodes indicates which nodes of the ad-hoc network are available or not.